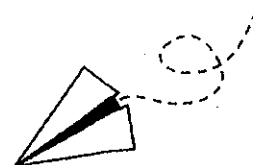


Add and subtract mixed numbers with unlike denominators by using the standard algorithm and writing equations to represent the problem, Practice Set B

1. Isabella's first and second throw travel a total of $22\frac{3}{4}$ feet combined. The second throw travels $6\frac{3}{8}$ feet. How far does Isabella's first throw travel?



Write an equation and solve.

What is the distance of Isabella's third throw? Write an equation and solve.

Name	Distance of throw 1	Distance of throw 2	Distance of throw 3	Total distance (ft.)
Isabella		$6\frac{3}{8}$ ft.		$34\frac{11}{12}$ ft.

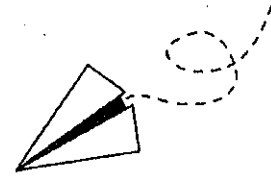
2. What is the sum of Christina's three throws? Write an equation and solve.

Name	Distance of throw 1	Distance of throw 2	Distance of throw 3	Total distance (ft.)
Christina	$7\frac{1}{6}$ ft.	$11\frac{3}{4}$ ft.	$8\frac{5}{12}$ ft.	



Add and subtract mixed numbers with unlike denominators by using the standard algorithm and writing equations to represent the problem, Practice

Set A



1. Sophia throws her paper airplane $13\frac{1}{2}$ feet. However, she is penalized $1\frac{1}{3}$ feet for standing over the throwing line. How long is her throw after the penalty was taken?

Circle the equation that represents how long Sophia's throw is after the penalty.

- A. $13\frac{1}{2} - 1\frac{1}{3} = d$
- B. $13\frac{1}{2} + 1\frac{1}{3} = d$
- C. $1\frac{1}{3} - 13\frac{1}{2} = d$
- D. $1\frac{1}{3} + 13\frac{1}{2} = d$

How long is Sophia's throw after the penalty is subtracted?

2. What is the total distance of Sophia's three throws? Write an equation and solve.

Name	Distance of throw 1	Distance of throw 2	Distance of throw 3	Total distance (ft.)
Sophia	$8\frac{1}{8}$ ft.	$10\frac{3}{8}$ ft.	$9\frac{1}{2}$ ft.	

Practice 5-3

Fractions With Unlike Denominators

Write each sum or difference in simplest form.

1. $\frac{1}{4} + \frac{2}{3}$

2. $\frac{2}{5} - \frac{1}{10}$

3. $\frac{1}{6} + \frac{1}{4}$

4. $\frac{5}{8} - \frac{1}{4}$

5. $\frac{7}{8} - \frac{1}{2}$

6. $\frac{3}{10} + \frac{4}{5}$

7. $\frac{5}{6} - \frac{2}{5}$

8. $\frac{5}{12} - \frac{1}{4}$

9. $\frac{7}{16} + \frac{1}{8}$

10. $\frac{11}{16} + \frac{5}{8}$

11. $\frac{2}{7} + \frac{1}{2}$

12. $\frac{4}{5} + \frac{3}{4}$

13. Jeanie has a $\frac{3}{4}$ -yard piece of ribbon. She needs one $\frac{3}{8}$ -yard piece and one $\frac{1}{2}$ -yard piece. Can she cut the piece of ribbon into the two smaller pieces? Explain.

Simplify by using mental math.

14. $\frac{7}{10} + \frac{2}{5} - \frac{1}{10}$

15. $\frac{5}{100} + \frac{20}{100} + \frac{30}{100}$

16. $\frac{2}{8} - \frac{2}{4} + \frac{5}{8}$

17. $\frac{10}{12} - (\frac{1}{12} + \frac{4}{6})$

18. $\frac{6}{10} - \frac{2}{10} + \frac{1}{2}$

19. $\frac{8}{16} - \frac{1}{4} + \frac{8}{16}$

20. For the class photo, $\frac{1}{5}$ of the students wore jeans, $\frac{2}{10}$ of the students wore shorts, and $\frac{4}{10}$ of the students wore a skirt. What fraction of the students wore something else?